

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297151

Luminaire Tested: **D3X-WG-50L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4309.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

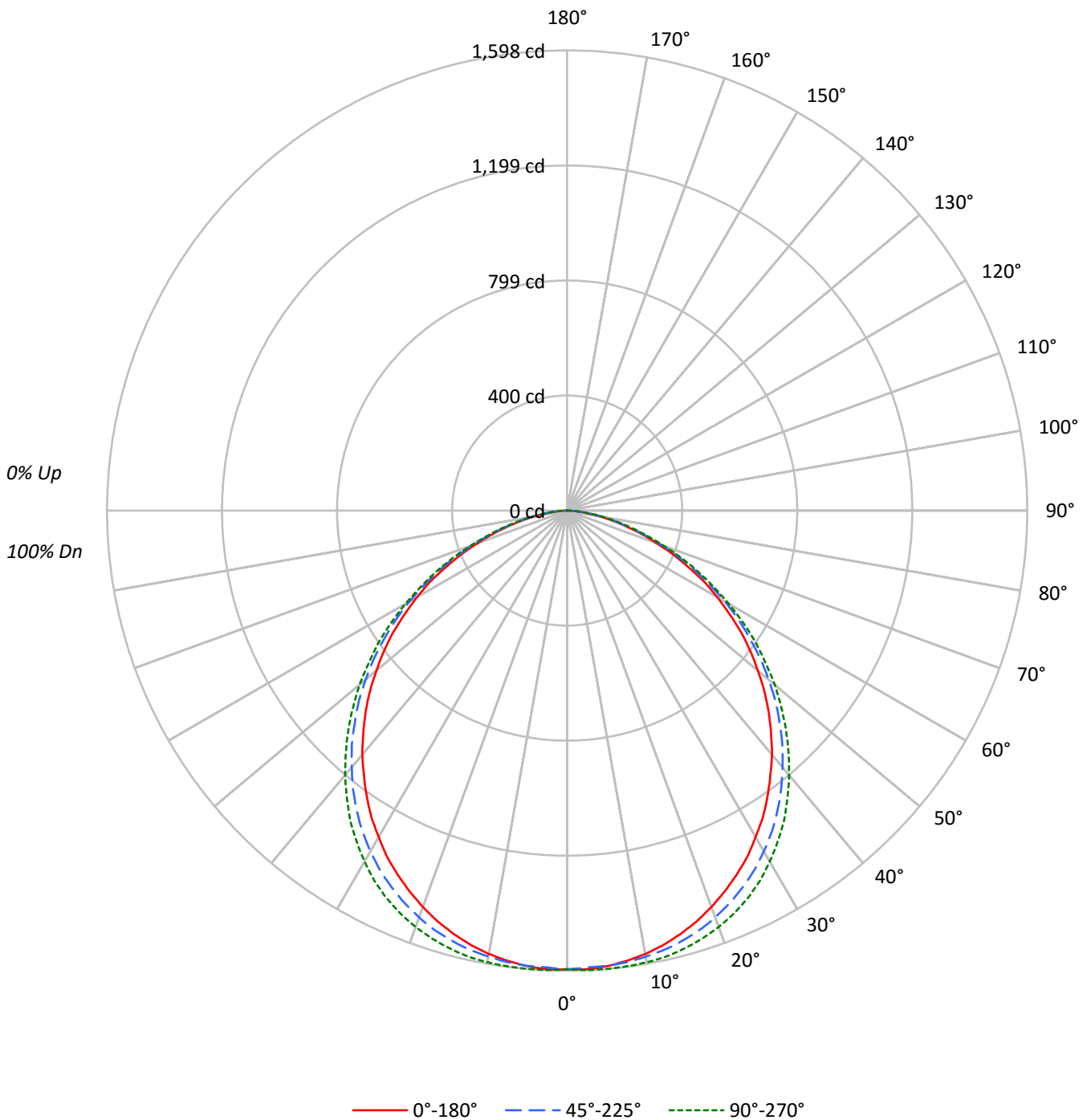
Input Watts (W): 35.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2143 | 2143 | 2143 |
| 5° | 2145 | 2143 | 2158 |
| 10° | 2136 | 2149 | 2176 |
| 15° | 2120 | 2154 | 2193 |
| 20° | 2097 | 2153 | 2203 |
| 25° | 2069 | 2143 | 2204 |
| 30° | 2034 | 2122 | 2187 |
| 35° | 1993 | 2092 | 2158 |
| 40° | 1944 | 2044 | 2106 |
| 45° | 1883 | 1985 | 2044 |
| 50° | 1809 | 1913 | 1971 |
| 55° | 1731 | 1818 | 1876 |
| 60° | 1620 | 1703 | 1745 |
| 65° | 1479 | 1558 | 1597 |
| 70° | 1299 | 1366 | 1403 |
| 75° | 1099 | 1156 | 1196 |
| 80° | 873 | 957 | 981 |
| 85° | 596 | 715 | 692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.4 | 3.5 |
| 10°-20° | 437.0 | 10.1 |
| 20°-30° | 664.1 | 15.4 |
| 30°-40° | 792.4 | 18.4 |
| 40°-50° | 800.3 | 18.6 |
| 50°-60° | 689.5 | 16.0 |
| 60°-70° | 480.7 | 11.2 |
| 70°-80° | 238.2 | 5.5 |
| 80°-90° | 55.5 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1252.4 | 29.1 |
| 0°-40° | 2044.8 | 47.5 |
| 0°-60° | 3534.6 | 82.0 |
| 0°-90° | 4309.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4309.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1593 | 1593 | 1593 | 1593 | 1593 | |
| 5° | 1588 | 1587 | 1587 | 1594 | 1598 | 151 |
| 15° | 1522 | 1530 | 1547 | 1567 | 1574 | 429 |
| 25° | 1394 | 1412 | 1443 | 1472 | 1485 | 642 |
| 35° | 1213 | 1233 | 1273 | 1303 | 1314 | 758 |
| 45° | 989 | 1011 | 1043 | 1068 | 1074 | 763 |
| 55° | 738 | 753 | 775 | 793 | 800 | 658 |
| 65° | 465 | 474 | 489 | 494 | 502 | 461 |
| 75° | 212 | 215 | 222 | 227 | 230 | 228 |
| 85° | 39 | 46 | 46 | 43 | 45 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1592.9 | 1592.9 | 1592.9 | 1592.9 | 1592.9 |
| 2.5° | 1594.5 | 1591.4 | 1588.3 | 1594.5 | 1597.6 |
| 5° | 1588.3 | 1586.8 | 1586.8 | 1594.5 | 1597.6 |
| 7.5° | 1577.5 | 1577.5 | 1582.1 | 1592.9 | 1596.0 |
| 10° | 1563.6 | 1566.7 | 1572.9 | 1588.3 | 1592.9 |
| 12.5° | 1545.1 | 1551.3 | 1562.1 | 1580.6 | 1586.8 |
| 15° | 1521.9 | 1529.7 | 1546.6 | 1566.7 | 1574.4 |
| 17.5° | 1495.7 | 1506.5 | 1528.1 | 1551.3 | 1559.0 |
| 20° | 1464.8 | 1478.7 | 1503.4 | 1529.7 | 1538.9 |
| 22.5° | 1430.9 | 1447.9 | 1475.6 | 1503.4 | 1514.2 |
| 25° | 1393.8 | 1412.4 | 1443.2 | 1472.5 | 1484.9 |
| 27.5° | 1355.2 | 1373.8 | 1407.7 | 1437.0 | 1449.4 |
| 30° | 1308.9 | 1330.5 | 1366.0 | 1396.9 | 1407.7 |
| 32.5° | 1264.2 | 1285.8 | 1322.8 | 1350.6 | 1361.4 |
| 35° | 1213.2 | 1233.3 | 1273.4 | 1302.8 | 1313.6 |
| 37.5° | 1159.2 | 1182.4 | 1220.9 | 1247.2 | 1256.5 |
| 40° | 1106.7 | 1126.8 | 1163.8 | 1190.1 | 1199.3 |
| 42.5° | 1048.1 | 1069.7 | 1106.7 | 1129.9 | 1137.6 |
| 45° | 989.4 | 1011.0 | 1043.4 | 1068.1 | 1074.3 |
| 47.5° | 929.2 | 949.3 | 981.7 | 1001.8 | 1007.9 |
| 50° | 864.4 | 882.9 | 913.8 | 933.8 | 941.6 |
| 52.5° | 802.6 | 819.6 | 845.9 | 862.8 | 867.5 |
| 55° | 737.8 | 753.3 | 774.9 | 793.4 | 799.6 |
| 57.5° | 668.4 | 685.3 | 705.4 | 720.8 | 725.5 |
| 60° | 602.0 | 615.9 | 632.9 | 646.7 | 648.3 |
| 62.5° | 537.2 | 543.3 | 558.8 | 571.1 | 572.7 |
| 65° | 464.6 | 473.9 | 489.3 | 493.9 | 501.7 |
| 67.5° | 398.2 | 404.4 | 416.8 | 422.9 | 429.1 |
| 70° | 330.3 | 335.0 | 347.3 | 355.0 | 356.6 |
| 72.5° | 271.7 | 273.2 | 282.5 | 288.6 | 290.2 |
| 75° | 211.5 | 214.6 | 222.3 | 226.9 | 230.0 |
| 77.5° | 160.5 | 163.6 | 169.8 | 172.9 | 172.9 |
| 80° | 112.7 | 117.3 | 123.5 | 125.0 | 126.6 |
| 82.5° | 72.5 | 78.7 | 83.4 | 84.9 | 81.8 |
| 85° | 38.6 | 46.3 | 46.3 | 43.2 | 44.8 |
| 87.5° | 13.9 | 17.0 | 18.5 | 20.1 | 20.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)